

Title (en)
PIEZOELECTRIC BASE MATERIAL, PIEZOELECTRIC WOVEN FABRIC, PIEZOELECTRIC KNITTED FABRIC, PIEZOELECTRIC DEVICE, FORCE SENSOR, AND ACTUATOR

Title (de)
PIEZOELEKTRISCHES BASISMATERIAL, PIEZOELEKTRISCHES GEWEBE, PIEZOELEKTRISCHER STRICKSTOFF, PIEZOELEKTRISCHE VORRICHTUNG, KRAFTSENSOR UND AKTUATOR

Title (fr)
MATÉRIAU DE BASE PIÉZOÉLECTRIQUE, TISSU TISSÉ PIÉZOÉLECTRIQUE, TISSU TRICOTÉ PIÉZOÉLECTRIQUE, DISPOSITIF PIÉZOÉLECTRIQUE, CAPTEUR DE FORCE ET ACTIONNEUR

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Application
EP 17810283 A 20170605

Priority
• JP 2016113011 A 20160606
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Abstract (en)
[origin: EP3471159A1] The present invention provides: a piezoelectric substrate which includes a first piezoelectric body having an elongated shape and helically wound in one direction, and which does not include a core material, in which the first piezoelectric body includes a helical chiral polymer (A) having an optical activity; in which the length direction of the first piezoelectric body is substantially parallel to the main direction of orientation of the helical chiral polymer (A) included in the first piezoelectric body; and in which the first piezoelectric body has a degree of orientation F, as measured by X-ray diffraction according to the following Equation (a), within the range of 0.5 or more but less than 1.0: degree of orientation $F = 180^\circ \pm \Delta / 180^\circ$ (in which \pm represents the half-value width of the peak derived from the orientation).

IPC 8 full level
H10N 30/857 (2023.01); **G01L 1/16** (2006.01); **H10N 30/00** (2023.01); **H10N 30/073** (2023.01); **H10N 30/098** (2023.01); **H10N 30/20** (2023.01); **H10N 30/30** (2023.01); **H10N 30/60** (2023.01); **H10N 30/80** (2023.01); **H10N 30/88** (2023.01)

CPC (source: EP US)
C08G 63/08 (2013.01 - US); **C08L 67/04** (2013.01 - US); **D01F 6/625** (2013.01 - US); **G01L 1/16** (2013.01 - EP US); **H10N 30/072** (2023.02 - US); **H10N 30/08** (2023.02 - US); **H10N 30/084** (2023.02 - US); **H10N 30/088** (2023.02 - US); **H10N 30/098** (2023.02 - EP US); **H10N 30/20** (2023.02 - US); **H10N 30/30** (2023.02 - US); **H10N 30/302** (2023.02 - US); **H10N 30/60** (2023.02 - US); **H10N 30/702** (2024.05 - EP US); **H10N 30/857** (2023.02 - EP US)

Citation (examination)
WO 2010022158 A2 20100225 - UNIV JOHNS HOPKINS [US], et al

Cited by
JPWO2018092886A1; EP3534419A4; EP4113638A3; US11101427B2; US11700772B2

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